

Kentucky Method 64-203-082
Revised ~~12/26/02~~ 05/09/08
Supersedes 64-203-020
Dated ~~2/11/00~~ 12/26/02

EVALUATION OF RETROREFLECTIVITY ON PERMANENT PAVEMENT MARKINGS USING MOBILE 30 METER GEOMETRY INSTRUMENTS

1. SCOPE:

- 1.1. This method covers the evaluation of retroreflectivity on permanent pavement markings using mobile 30-meter geometry instruments.
- 1.2. It is intended to provide standards of horizontal pavement markings to assure that adequate retroreflectivity for the driver is provided by newly applied markings.
- 1.3. Waterborne pavement markings will be evaluated in a period of not less than 30 to no more than 60 days after the date the materials are applied.
- 1.4. Durable pavement markings such as Thermoplastic, Permanent Pavement Tapes, and Epoxies will be evaluated in a period of time not less than 150 days to no more than 210 days after the date the materials are applied.

2. TERMINOLOGY:

- 2.1. Section: a portion of markings completed by one striping crew in one day.
- 2.2. Segment: is equal to mobile readings taken and averaged over one-tenth of a mile.
- 2.3. Retroreflectivity: a standard of measure for pavement markings. The units for these readings are millicandelas per square meter per lux ($\text{mcd}/\text{m}^2/\text{lx}$).

3. SUMMARY OF SPECIFICATION:

- 3.1. For the purpose of evaluating retroreflectivity, the work completed in a single day by each crew will be evaluated separately as a section.
- 3.2. Calibrate the mobile instrument. Record calibration readings at the beginning of the day's work. Recalibrate the instrument as necessary when taking readings. Provide the calibration readings in the retroreflectivity report, each time these operations are performed.
- 3.3. The Department will provide the Contractor operating the mobile retroreflectometer with routes for evaluation. The lines evaluated will represent at least 50% of the segments completed in one day of striping. Segments will be randomly selected from the Contractors Daily Striping Report for Mobile Inspection.

4. PERFORMANCE REQUIREMENTS:

- 4.1. Retroreflectivity: The pavement marking will be evaluated for acceptance within the time period detailed in sections 1.3.
- 4.2. If 80% or more of the readings in a section meet or exceed the required minimum retroreflectivity values established for the materials that are being measured, the section will be accepted.
- 4.3. If less than 80% of the readings in a section meet the required minimum retroreflectivity values established for the materials that are being measured, the section will not be accepted.

5. REPORTING:

- 5.1. Include the following in the inspection report:
 - 5.1.1. Readings taken with the mobile retroreflectometer (which should show date and time of test and calibration information).
 - 5.1.2. Date of application of the pavement marking.
 - 5.1.3. Location (County, Route, Milepoint, Intersection, direction of travel, color of line, and any special information).
- 5.2. Readings shall be recorded in millicandelas per square meter per lux (mcd/m²/lx).
- 5.3. Measurement shall be reported for each section of striping per color per day.

APPROVED

DIRECTOR
DIVISION OF MATERIALS

DATE

05/09/08

~~APPROVED~~

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Director~~

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DIVISION OF MATERIALS~~

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